Inventor: BOUKHRIS G

Number of Countries: 019 Number of Patents: 007

Patent Family:

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Pat	ent No	Kind	Date	App	plicat No	Kind	Date	Week	
WO	9848708	A1	19981105	WO	98FR760	Α	19980415	199850	В
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Priority Applications (No Type Date): FR 975387 A 19970430 Patent Details:

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EP 991360 A1 F A61B-017/16 Based on patent WO 9848708 Designated States (Regional): BE DE ES FR GB IT PT

US 6235035 B1 A61B-017/00 Based on patent WO 9848708

EP 991360 B1 F A61B-017/16 Based on patent WO 9848708

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DE 69822829 E A61B-017/16 Based on patent EP 991360 Based on patent WO 9848708

ES 2218821 T3 A61B-017/16 Based on patent EP 991360

Abstract (Basic): WO 9848708 A

The drill bit consists of active (A) and non-active (E) sections with one or more circular recesses (f) between them of sufficient width and depth to recuperate the bone fragments removed by the active section. The recesses have a depth of one or more millimetres and a similar width.

The drill bit is also equipped with a stop (B) to limit its penetration, the stop having a coloured band for easy identification of the distance from the tip of the bit to the stop. The non-active section (E) of the bit has a mark (e) to indicate the bit's diameter.

ADVANTAGE - Reliable control of drilling depth and recuperation of bone fragments for grafts.

Dwg.1/2

Derwent Class: P31

International Patent Class (Main): A61B-017/00; A61B-017/16

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(54) Title: BONE RECOVERING SURGICAL DRILL COMPRISING A COLOURED MARK

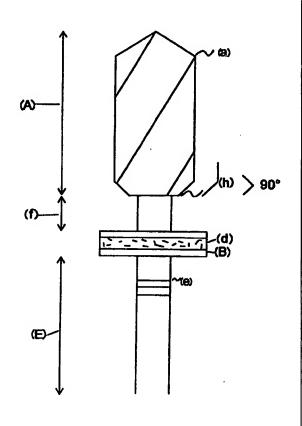
(54) Titre: FORET CHIRURGICAL RECUPERATEUR D'OS COMPORTANT UNE BUTEE A REPERE EN COULEUR

(57) Abstract

The invention concerns a bone recovering surgical drill consisting of the following elements: a) One or several circular grooves (f) for maintaining the bone; b) a fixed stop (B) with a coloured mark (d); c) a non-active part (E) with a diameter mark (e) above it.

(57) Abrégé

Foret chirurgical à butée récupérateur d'os composé des éléments suivants: a) une ou plusieurs gorges circulaires (f) servant à retenir l'os; b) une butée fixe (B) avec un repère couleur (d); c) une partie non active (E) avec un repère de diamètre (e) par dessus.



UNIQUEMENT A TITRE D'INFORMATION

Codes utilisés pour identifier les Etats parties au PCT, sur les pages de couverture des brochures publiant des demandes internationales en vertu du PCT.

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FORET CHIRURGICAL RECUPERATEUR D'OS COMPORTANT UNE BUTEE A REPERE EN COULEUR

La présente invention concerne un forêt chirurgical avec une butée fixe pour en limiter l'enfoncement présentant un ou plusieurs espaces circulaires profonds entre la partie active du forêt et la butée afin de retenir l'os de forage.

- 5 Cet os pourra dans un deuxième temps être récupéré à des fins de greffe osseuse.
 - Ce forêt chirurgical récupérateur d'os présente cinq points spécifiques :
 - a) Une butée (B) fixe d'un diamètre supérieur à la partie active, servant à limiter l'enfoncement du forêt, et de toit à la zone de récupération d'os.
 - b) Un repère (d) en couleur étalé sur la butée afin de reconnaître la distance entre la pointe du forêt et la butée.
 - c) Un repère (e) sur la partie lisse non active (E) du forêt afin de reconnaître le diamètre du forêt.
 - d) Un ou plusieurs espaces circulaires (f) entre la pointe du forêt et la butée ayant pour rôle de récupérer l'os du forage. Cet espace pourra avoir de 1 à plusieurs mm de largeur et cette gorge circulaire devra avoir une profondeur de 1 à plusieurs mm compatible avec la résistance du foret.
 - e) La partie active (A) se termine par un angle (h) supérieur à 90 degrés afin de faciliter le retrait de l'instrument en rotation.

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REVENDICATIONS

1) Foret chirurgical récupérateur d'os comportant une partie active (A) et une partie non active (E) caractérisée en ce que entre la partie active et non active il y ait une ou plusieurs gorges circulaires (f) de profondeur et de largeur suffisante pour récupérer l'os du forage; ainsi qu'une butée fixe d'un diamètre supérieur à la partie active (A) avec un repère en couleur sur cette butée (d) dont le but est de limiter l'enfoncement du foret et de maintenir l'os récupéré dans la gorge circulaire.

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- 2) Foret chirurgical récupérateur d'os comportant une butée à repère en couleur selon la revendication 1 caractérisé en ce que la ou les gorges circulaires (f) ont une profondeur et de 1 à plusieurs mm de et une largeur de 1 à plusieurs mm.
- 3) Foret chirurgical récupérateur d'os comportant une butée à repère en couleur selon la revendication 1 caractérisé en ce que la butée fixe (B) a un diamètre supérieur à celui de la partie active (A) avec un repère en couleur sur cette butée (d).
- 4) Foret chirurgical récupérateur d'os comportant une butée à repère en couleur selon la revendication 1 caractérisé en ce qu'il présente sur sa partie non active (E) un signe indiquant le diamètre du foret (e).

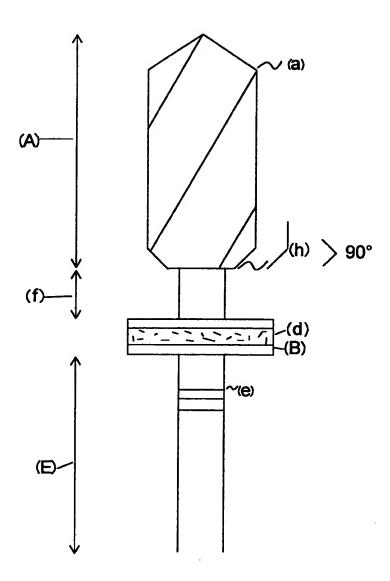


Fig. 1

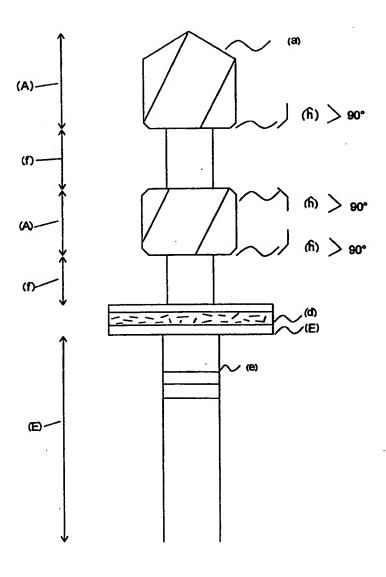


Fig. 2

INTERNATIONAL SEARCH REPORT

Inte ional Application No PCT/FR 98/00760

According to International Patient Classification (IPC) or to both national classification and IPC 8. FIELDS SEARCHED Winnum occurrentation searched (data/fiction system followed by classification symbols) IPC 6 AG18 B238 AG10 Documentation searched other than minimum/documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Cathegory Cillation of document, with indication, where appropriate, of the relevant passages A US 5 261 818 A (SHAW LEON) 16 November 1 A W0 96 12453 A (SMITH & NEPHEW DYONICS INC) 2 May 1996 see claim 1; figure 1 A US 5 575 650 A (NIZNICK GERALD A ET AL) 19 November 1996 see claims 1-3; figure 1 A US 4 710 075 A (DAVISON DALE) 1 December 1 IN SA 710 075 A (DAVISON DALE) 1 December 1 IN SA 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 1 SA US 4 710 075 A (DAVISON DALE) 1 December 2 A US 5 75 650 A (NIZNICK GERALD A ET AL) 3 A US 6 710 6 710 A (DAVISON DALE) 1 December 1 SA US 6 710 6 710 A (DAVISON DALE) 1 December 2 A US 6 710 6 710 A (DAVISON DALE) 1 December 3 A US 6 710 6 710 A (DAVISON DALE) 1 December 4 A US 6 710 6 710 A (DAVISON DALE) 1 December 5 Pedical conference and accessors, USA exhibition or which is old to establish fine the publication date of another accessors of the date of the publication date of another accessors of the date of the publication date of another accessors of the date of the publication date of another accessors of the date of the publicat	A. CLASS IPC 6	FICATION OF SUBJECT MATTER A61B17/16		
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Further documents are listed in the continuation of box C. X Patent family members are listed in annex. *T later document published after the international filling date or priority date and not in conflict with the application but considered to be of particular relevance *E' earlier document but published on or after the international filling date *L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O' document referring to an oral disclosure, use, exhibition or other means *P' document published prior to the international filling date but later than the priority date claimed Date of the actual completion of theinternational search *August 1998 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentian 2 NL - 2280 HV Rijswijk Tal tater document published after the international filling date or priority date and not in conflict with the application but called to involve an inventive step when the document to be considered to considered to considered to involve an inventive step when the document is taken alone via document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *3.** document member of the same patent family Date of mailing of the international search report 31/08/1998 Authorized officer			_/	
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Fax: (+31-70) 340-3016			Hansen, S	

INTERNATIONAL SEARCH REPORT

Inte :onal Application No PCT/FR 98/00760

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A. CLASSEMENT DE L'OBJET DE LA DEMANDE CIB 6 A61B17/16

Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB

B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE

Documentation minimale consultée (système de classification suivi des symboles de classement) C I B $_6$ A 6 1 B B 2 3 B A 6 1 C

Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche

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Nom et adresse postale de l'administrationchargée de la recherche internationale Office Européen des Brevets, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Fonctionnaire autorisé Hansen, S

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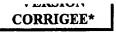
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(30) Données relatives à la priorité:

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(71) Déposant (pour tous les Etats désignés sauf US): SOCIETE IMPLANTS DIFFUSION [FR/FR]; 59, rue Pixerecourt,

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(74) Représentant commun: SOCIETE IMPLANTS DIFFUSION; 59, rue Pixerecourt, F-75020 Paris (FR).

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(54) Title: BONE RECOVERING SURGICAL DRILL COMPRISING A STOP WITH A COLOURED MARK

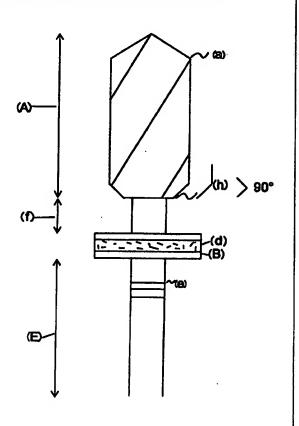
(54) Titre: FORET CHIRURGICAL RECUPERATEUR D'OS COMPORTANT UNE BUTEE A REPERE EN COULEUR

(57) Abstract

The invention concerns a bone recovering surgical drill consisting of the following elements: a) One or several circular grooves (f) for maintaining the bone; b) a fixed stop (B) with a coloured mark (d); c) a non-active part (E) with a diameter mark (e) above it.

(57) Abrégé

Foret chirurgical à butée récupérateur d'os composé des éléments suivants: a) une ou plusieurs gorges circulaires (f) servant à retenir l'os; b) une butée fixe (B) avec un repère couleur (d); c) une partie non active (E) avec un repère de diamètre (e) par dessus.



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